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 A6D 23A



(54) IMPROVEMENTS IN OR RELATING TO GOLF PUTTERS

(71) I, ELLIOT GEORGE ROWAN, of British Nationality of 4, Stockiemuir Avenue, Bearsden, Glasgow, Scotland, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to improvements in or relating to golf putters.

More specifically the invention provides for an interchangeable connecting member which positions the head of the putter relative to the shaft whereby a plurality of such connecting members provide for variations in the position and alignment of the putter shaft relative to the putter head with reference to the toe, heel and striking face of the putter head.

According to the invention a golf putter comprises a putter head; a shaft; and a connecting member; said putter head having a toe portion at one end, a heel portion at the opposite end formed with a locating recess, a striking face, and sole portion; said connecting member having a shank portion, a boss at one end of the shank portion arranged to releasably receive an end portion of the shaft, and the opposite end of the shank portion arranged to mate with said locating recess to releasably secure the putter head to the connecting member, the axis of said boss being offset relative to the axis of the shank portion and said shank portion being arranged at a predetermined angle to the horizontal plane of the sole portion, so as to align the shaft at a particular respective attitude to the putter head with reference to the toe, heel and striking face.

Further according to the invention a golf putter kit comprises a putter head having a toe portion at one end, a heel portion at the opposite end, a striking face and a sole; a shaft; a plurality of interchangeable

connecting members each arranged to connect the shaft to or adjacent the heel portion of the putter head at a particular respective attitude so as to provide for variation in the position and alignment of the shaft relative to the putter head with reference to the toe, heel and striking face dependant upon the connecting member used, said connecting members each having a shank portion, a boss at one end of the shank portion, arranged to releasably receive an end of the shaft and the opposite end of the shank portion arranged to be releasably secure to or adjacent the heel portion of the putter head, the axis of said boss being offset relative to the axis of the shank portion and said shank portion being arranged at a predetermined angle to the horizontal plane of the sole portion of the putter head when secured thereto.

Embodiments of the invention are illustrated by way of example in the accompanying drawings in which:—

Fig. 1 is a plan view of a putter head;

Fig. 2 is a side view of the putter head showing alternative connecting members attached thereto;

Fig. 3 is a side view of one of the connecting member shown in Fig. 2;

Fig. 3A is a view on the line A-A of Fig. 3;

Fig. 3B is a view on the line B-B of Fig. 3;

Fig. 4 is a side view of another connecting member shown in Fig. 2;

Fig. 4A is a view on the line A-A of Fig. 4;

Fig. 4B is a view on the line B-B of Fig. 4;

Fig. 5 is a side view of another connecting member similar to that of Fig. 4;

Fig. 5A is a view on the line A-A of Fig. 5;

Fig. 5B is a view on the line B-B of Fig. 5;

Fig. 6 is a side view of another connecting member shown in Fig. 2;

Fig. 6A is a view on the line A-A of Fig. 6;

Fig. 6B is a view on the line B-B of Fig. 6;

Fig. 7 is a side view of another connecting member similar to that of Fig. 6;

Fig. 7A is a view on the line A-A of Fig. 7;

Fig. 7B is a view on the line B-B of Fig. 7.

Referring to the drawings Fig. 1 illustrates the head of a typical golf putter denoted generally at 1 having a toe portion 2, a heel portion 3, a striking face 4 and a sole 5. The heel portion 3 is provided with a locating recess 6. A connecting member denoted generally at 7 comprises a shank portion 8 having at one end a boss 9 arranged to receive one end of a shaft (not shown) and means for securing the shaft in the boss comprising a pair of screw threaded bores 10 normal to the axis of the shaft and arranged to receive retaining screws therein.

The opposite end 12 of the shank portion 8 is arranged to mate the recess 6 in the heel portion 3 of the putter head 1 and is provided with two bores 13 arranged to be aligned with two internally screw threaded bores 14 in the recess 6 of the putter head. A pair of screws insertable in the bores 13 are provided for detachably mounting the connecting member to the putter head.

Each of the connecting members illustrated in Figs. 3 to 7 are of similar construction and are interchangeable.

The difference between each of the connecting members is the shape of the shank portions 8.

The shank portions 8 are so arranged that when a connecting member is secured to the heel of the putter head the location and alignment of the boss and therefore the putter shaft relative to the putter head varies according to the connecting member used.

When the connecting member illustrated in Fig. 3, 3A and 3B, is secured to a putter head the shank portion 8 is located at an angle of approximately 45° to the horizontal plane of the sole 5 of the putter head and the axis of the boss 9 is approximately 105° to the said plane so that the axis of the putter shaft is in a plane parallel with but behind the plane of the striking face 4 and an extension of the axis of the shaft is substantially midway between the toe and heel portions of the head.

When the connecting member illustrated in Figs. 4, 4A and 4B is secured to a putter head the shank portion 8 is located at an angle of approximately 75° to the horizontal plane of the sole 5 of the putter head and the angle of the axis of the boss is approxi-

mately 105° from the said plane. The boss 9 is offset from the shank portion so that the axis of the boss is substantially in the plane of the striking face and an extension of the axis of the boss is located intermediate the heel and centre of the head 1.

The connecting member illustrated in Fig. 5, 5A and 5B is identical to that of the connecting member of Fig. 4 except that the boss 9 is offset from the shank a greater distance so that the axis of the boss is in a vertical plane in advance of the plane of the striking face. When the connecting member illustrated in Fig. 6, 6A and 6B is secured to a putter head the shank portion 8 is located at an angle of approximately 105° to the horizontal plane of the sole 5 of the putter head and the axis of the boss is substantially parallel thereto but offset from the axis of the shank to be substantially in the plane of the striking face 4.

The connecting member illustrated in Figs. 7, 7A and 7B is identical to that of the connecting member illustrated in Fig. 6 except that the boss 9 is offset from the shank portion a greater distance so that the axis of the boss is in a plane advance of the said plane of the striking face 4.

From the foregoing it will be seen that with the five connecting members and a single putter head and shaft variations in the position and alignment of the putter shaft relative to the toe, heel and striking face of the putter head can be obtained by changing the connecting member.

A putter head of any accepted configuration of the putter head does not form part of the present invention.

WHAT I CLAIM IS:—

1. A golf putter comprising a putter head; a shaft; and a connecting member; said putter head having a toe portion at one end, a heel portion at the opposite end formed with a locating recess, a striking face, and sole portion; said connecting member having a shank portion, a boss at one end of the shank portion arranged to releasably receive an end portion of the shaft, and the opposite end of the shank portion arranged to mate with said locating recess to releasably secure the putter head to the connecting member, the axis of said boss being offset relative to the axis of the shank portion and said shank portion being arranged at a predetermined angle to the horizontal plane of the sole portion so as to align the shaft at a predetermined respective attitude to the putter head with reference to the toe, heel and striking face.

2. A golf putter kit comprising a putter head having a toe portion at one end a heel portion at the opposite end, and a striking face, and a sole; a shaft; and a plurality of interchangeable connecting

members each arranged to connect the shaft to or adjacent the heel portion of the putter head at a particular respective attitude for variation in the position and alignment of the shaft relative to the putter head with reference to the toe, heel and striking face dependant upon the connecting member used, said connecting members each having a shank portion, a boss at one end of the shank portion arranged to releasably receive an end of the shaft and the opposite end of the shank portion arranged to be releasably secured to or adjacent the heel portion of the putter head, the axis of said boss being offset relative to the axis of the shank portion and said shank portion being arranged at a predetermined angle to the horizontal plane of the sole portion of the putter head when secured thereto.

3. A golf putter kit as claimed in claim 2, in which the putter head has a locating recess formed in the heel portion to mate with the end of each of the connecting members remote from the boss, a pair of bores in the said end of each of the connecting members being aligned to cooperate with a pair of internally screw threaded bores in said recess, each of the aligned bores thereby being adapted to receive retaining screws.

4. A golf putter kit as claimed in claim 2 or 3, in which the shank of one of the connecting members when secured to the shaft and putter head is arranged at an angle of approximately 45° to the horizontal plane of the sole, the shaft is at an angle of approximately 105° to the said plane and the produced axis of the boss is located substantially midway between the toe and heel of the head and the axis of the boss is in a plane parallel with but behind the plane of the striking face.

5. A golf putter kit as claimed in claim 2 or 3, in which one of the connecting members when secured to the shaft and

putter head has its shank arranged at an angle of approximately 75° to the horizontal plane of the sole, the axis of the shaft is at an angle of approximately 105° to the said plane and the produced axis of the boss is located intermediate the heel portion and central portion of the head.

6. A golf putter kit as claimed in claim 5, in which the axis of the boss of said connecting member is in the plane of the striking face.

7. A golf putter kit as claimed in claim 5, in which the boss is offset from the shank portion and its axis is in a plane parallel to and in advance of the said plane of the striking face.

8. A golf putter kit as claimed in claim 2 or 3, in which one of the connecting members when secured to the shaft and putter head has its shank arranged at an angle of approximately 105° to the horizontal plane of the sole end the shaft is on a parallel axis to the shank.

9. A golf putter kit as claimed in claim 8, in which the boss is offset from the shank and the axis of the boss in the plane of the striking face.

10. A golf putter kit as claimed in claim 8, in which the boss is offset from the shank and the axis of the boss is in a plane parallel to but in advance of the said vertical plane of the striking face.

11. A golf putter kit having a plurality of connecting members substantially as hereinbefore described with reference to the accompanying drawings.

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Agents for the Applicant.

3 SHEETS

This drawing is a reproduction of
the Original on a reduced scale.
SHEET 1

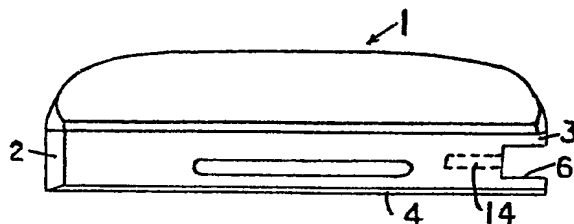


FIG. 1

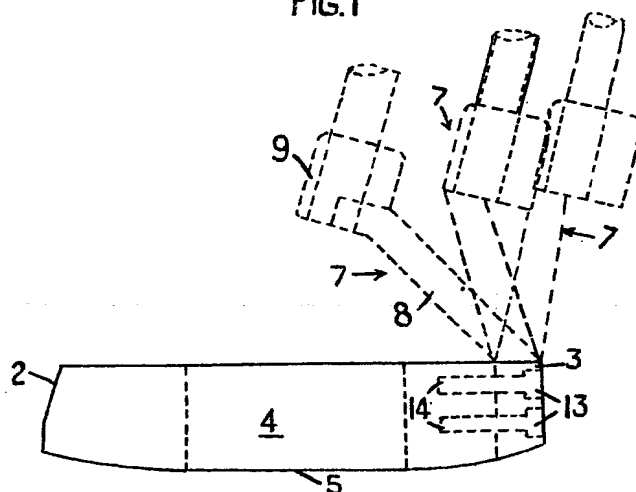


FIG.2

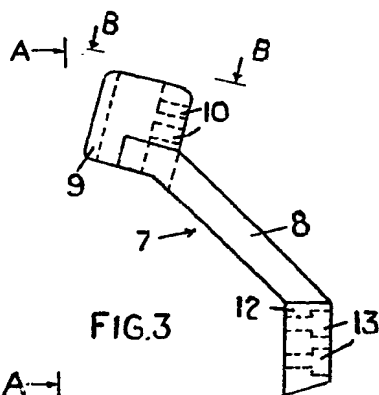


FIG.3

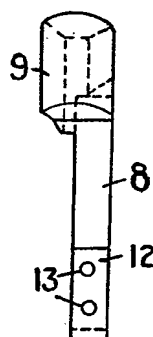


FIG. 3A

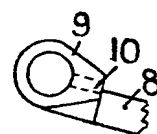


FIG. 3B

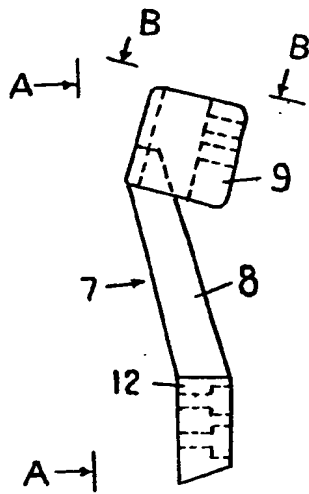


FIG. 4

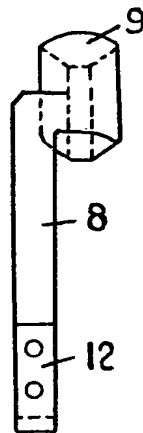


FIG. 4A

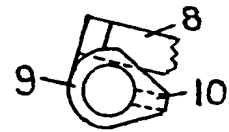


FIG. 4B

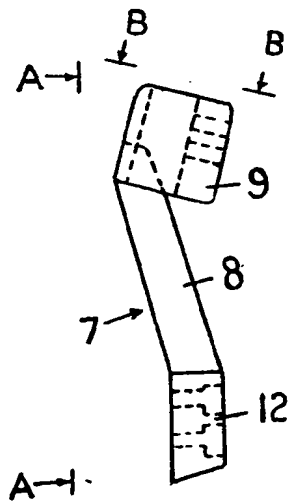


FIG. 5

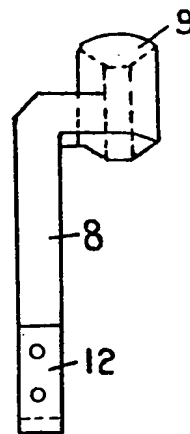


FIG. 5A

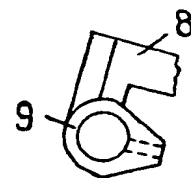


FIG. 5B

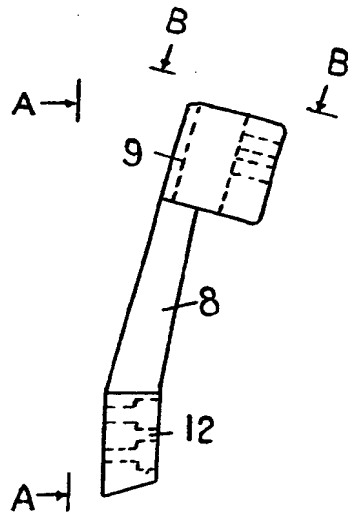


FIG. 6

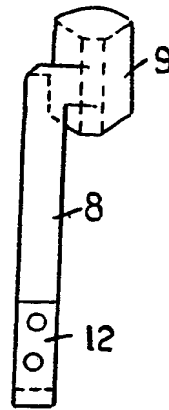


FIG. 6A

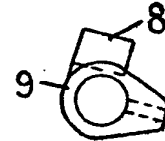


FIG. 6B

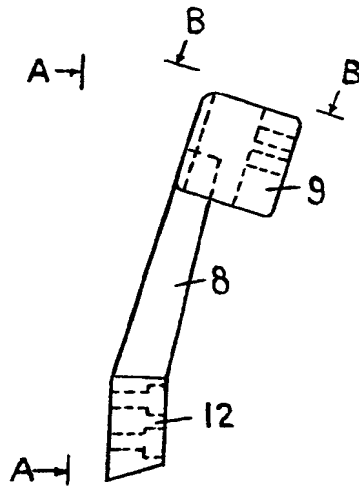


FIG. 7

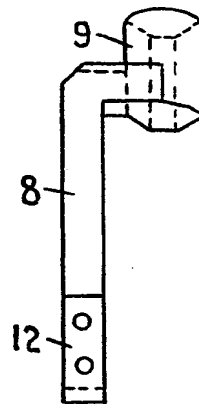


FIG. 7A

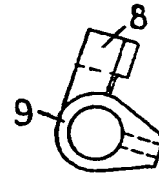


FIG. 7B